JET SPINDLES CATALOG 2026



METALWORKING
INNOVATION

COLIBRI
SPINDLES

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CUSTOMERS

High Pressure Coolant Driven Jet Spindle for All Milling & Turning Centers - PlugnPlay!

Prerequisites to Qualify Customer:

1. Coolant flows through the main CNC machine spindle
2. Min. coolant pressure, of main spindle outlet: 15 bar (POWER Jet)
3. Max. coolant pressure, of main spindle outlet: 70 bar (POWER Jet)
4. Minimum flow rate: 10 l/min
5. Filter element: Min. 100 µm
6. Active mist collector
7. When using emulsion coolant, use an anti-foaming agent additive suitable for emulsion
8. When using oil-based coolant, high-pressure increases oil fumes:
   a. Use appropriate means of fire protection
   b. Use anti-dissolution additive suitable for oil
9. During replacement of coolant or coolant filter:
   a. Remove Jet Spindle from the ATC.
   b. Run high pressure coolant pump for 10 sec before reinstalling Jet spindle in ATC.
10. Max. viscosity 15 mm^2/s.

JET SPINDLE PRO



Modular High-Speed Jet Spindle with Option for OnSite Maintenance

NEW replaceable cartridge

NEW 90 Degrees Holder

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COOLANT DRIVEN HIGH-SPEED SPINDLES



Wireless App Monitor

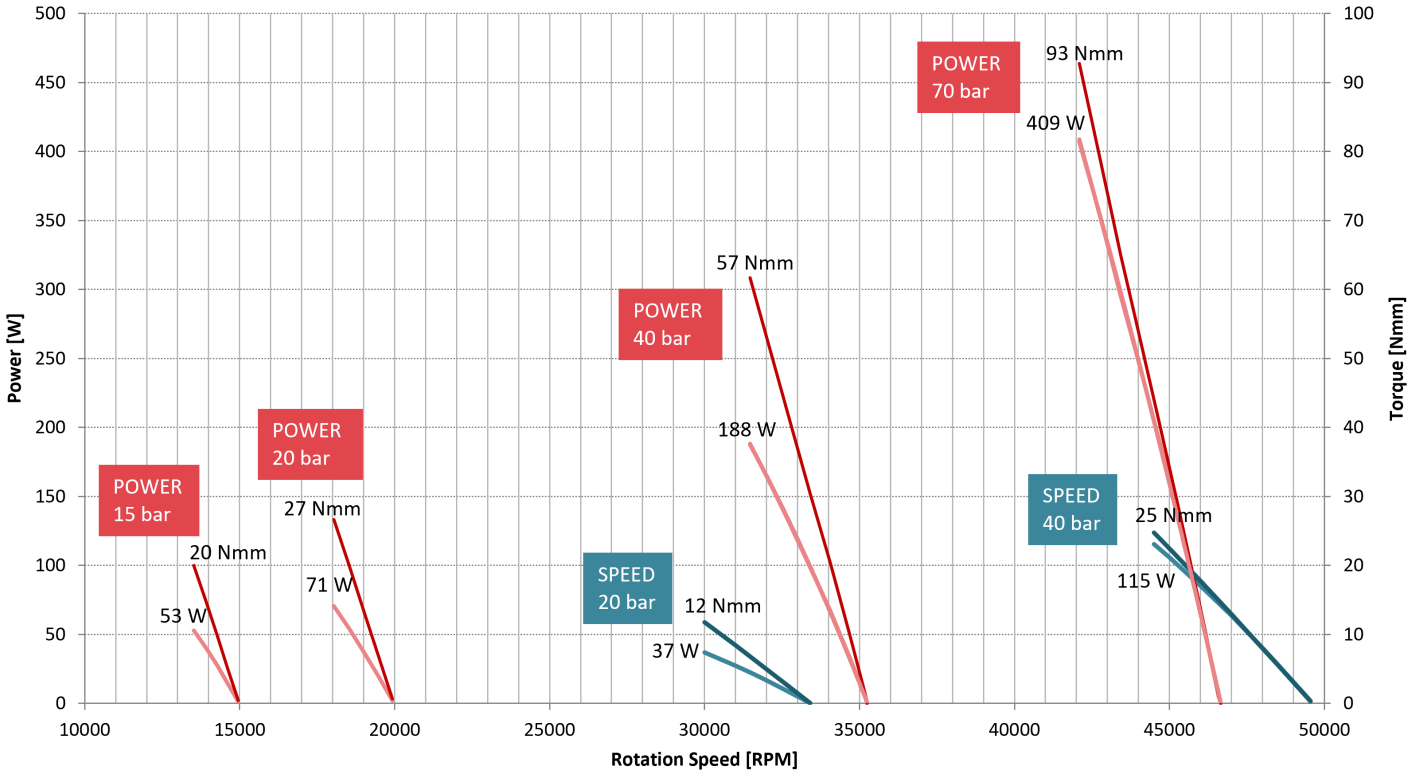
FEATURES

The revolutionary modular high-speed Jet Spindle - meticulously designed, engineered, manufactured and assembled with ultra precision industry collets and nuts - offers maximum flexibility for a wide range of small tool applications.

BENEFITS

- √ Quick and easy installation
- √ Free energy source
- √ Good chip evacuation
- √ Coolant at the cutting edge
- √ Used in tool changer
- √ Compact design

Recommended Working Zone for POWER JET vs SPEED



POWER JET - ideal for all small tools, both versatile and powerful, as accurate as the SPEED JET

SPEED JET - ideal for applications requiring micro tools and very high speeds at 20 to 40 bar

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JET SPINDLE PRO



POWER Jet

POWER & SPEED

JET SPINDLE OPERATING PARAMETERS					POWER JET	
HIGH PRESSURE COOLANT (BAR)	15 BAR	20 BAR	40 BAR	70 BAR	Terms of Use	
Min Coolant Supply Diameter [mm]	4.0				**Collet**	ER11 AA/UP
Min flow rate (L/min)	10	12	16	22	**Runout**	3 Microns
Rotational spindle speed [RPM]*	20,000	25,000	35,000	45,000	**Warranty**	1 Year
Max power (W) / torque (Nmm)	53 / 20	71 / 27	188 / 57	409 / 93		

*** Notes:**

- Rotational spindle speed is based on coolant pressure and flow rate.
- Coolant pressure is measured at the spindle inlet.

Max. Tool Diameter [mm]	Application	P	M	N [Al]	N [Cu]	S [Ti]
	Drilling	3.0		4.0	3.0	
	Slot Milling	6.0	4.0	6.0	4.0	
	Profile Milling	6.0				
	Shoulder Milling					
	Chamfering					
	Deburring					
	Engraving					





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JET SPINDLE PRO



SPEED Jet

SPEED FOR SMALL TOOLS

JET SPINDLE OPERATING PARAMETERS				SPEED JET	
HIGH PRESSURE COOLANT (BAR)	20 BAR	30 BAR	40 BAR	Terms of Use	
Min Coolant Supply Diameter [mm]	4.0			**Collet**	ER11 AA/UP
Min flow rate (L/min)	10	15	20	**Runout**	3 Microns
Rotational spindle speed [RPM]*	33,000	44,000	55,000	**Warranty**	1 Year
Max power (W) / torque (Nmm)	37 / 12	76 / 18	115 / 25		

*** Notes:**
- Rotational spindle speed is based on coolant pressure and flow rate.
- Coolant pressure is measured at the spindle inlet.

Max. Tool Diameter [mm]	Application	P	M	N [Al]	N [Cu]	S [Ti]
	Drilling	2.0		3.0	2.0	
	Profile Milling	6.0	4.0	6.0	4.0	
	Slot Milling	4.0	3.0	4.0	3.0	
	Shoulder Milling	4.0	6.0			
	Chamfering	6.0				
	Deburring					
	Engraving					





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JET SPINDLE PRO

Clamping and Coolant



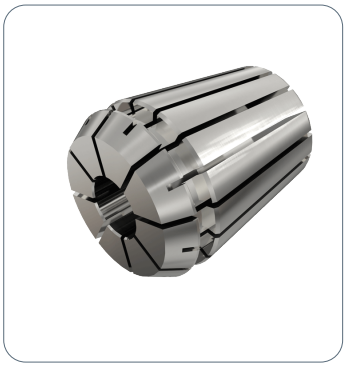


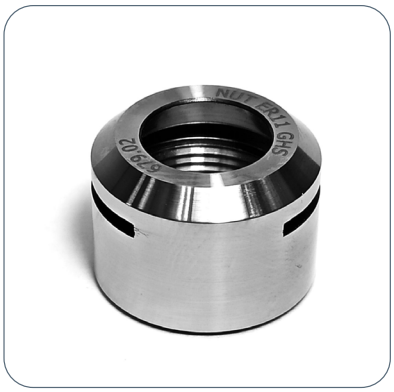
When machining at high speeds you must have a high precision spindle that provides the speed, accuracy and power using high-precision nut & collet to optimize dynamic balancing with pinpointed coolant to the cutting edge. **Assures a simple tool change with no setup time and a low runout**.

Coolant outlets from the front turbine cover point high pressure coolant directly towards the cutting edge.

Nut & Collet

NUT ER 11 GHS (3 micron runout)	27-188-054
High Precision ER 11 Collet (3 micron runout - Recommended)	**Purchased Separately**





Tools

TJS SHAFT LOCK	27-188-205
WRENCH ER11 SMS	27-188-053



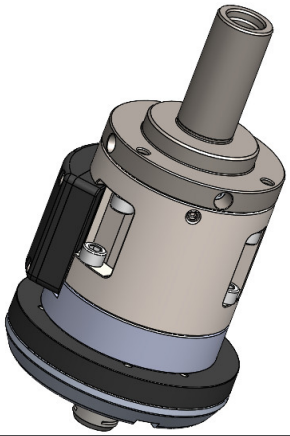


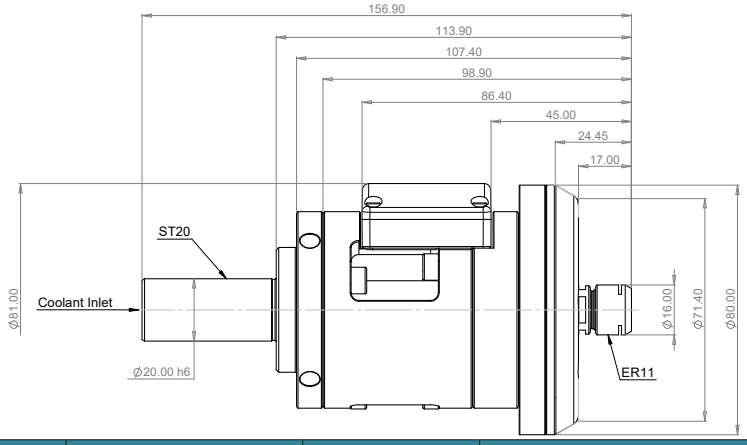
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JET SPINDLE PRO

POWER Jet

COMPATIBLE ADAPTOR MODELS										
Adapter	ST20	ER32	BT30	BT40	HSK A63	HSK A40	C5	C6	SK40	CAT40

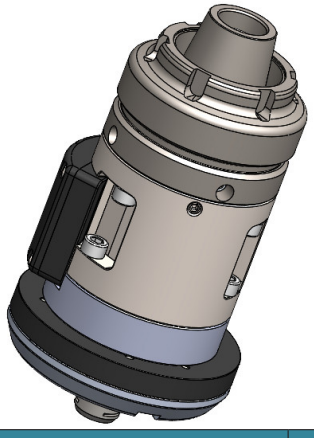


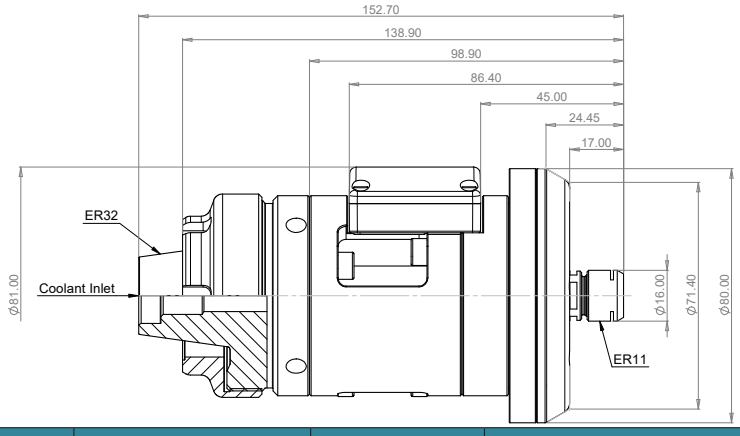


Designation	P/N	Adapter	L mm	Tool d max mm	Kg
POWER Jet ST20	47-085-099	**ST20**	113.90	6.0	1.8

FILES AVAILABLE FOR DOWNLOAD IN ONLINE CATALOG: https://colibrispindles.com/catalog/		
ST20 Primary View 2D – DXF	ST20 Model 3D Detail – STP	ST20 Model 3D Light – STP

COMPATIBLE ADAPTOR MODELS										
Adapter	ST20	ER32	BT30	BT40	HSK A63	HSK A40	C5	C6	SK40	CAT40





Designation	P/N	Adapter	L mm	Tool d max mm	Kg
POWER Jet ER32	47-085-599	**ER32**	125.90	6.0	2.3

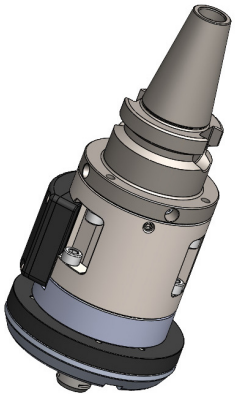
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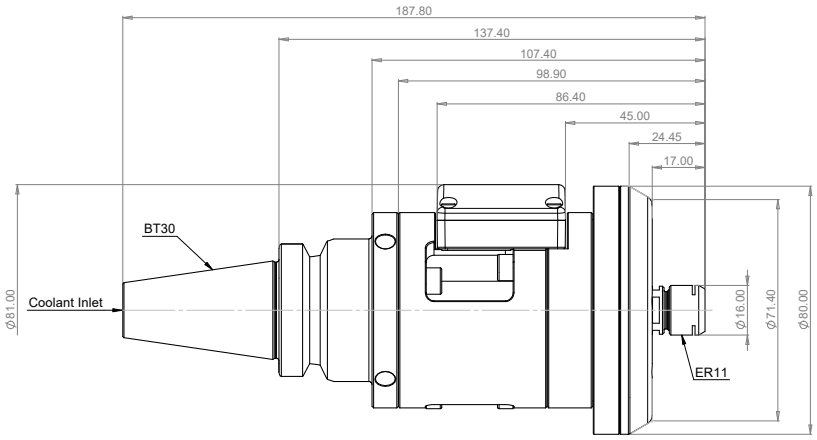
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POWER Jet

COMPATIBLE ADAPTOR MODELS										
Adapter	ST20	ER32	BT30	BT40	HSK A63	HSK A40	C5	C6	SK40	CAT40

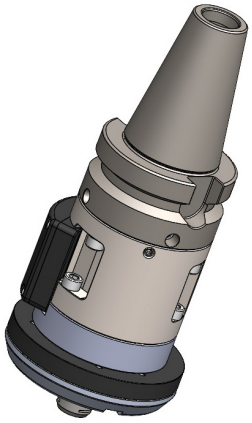


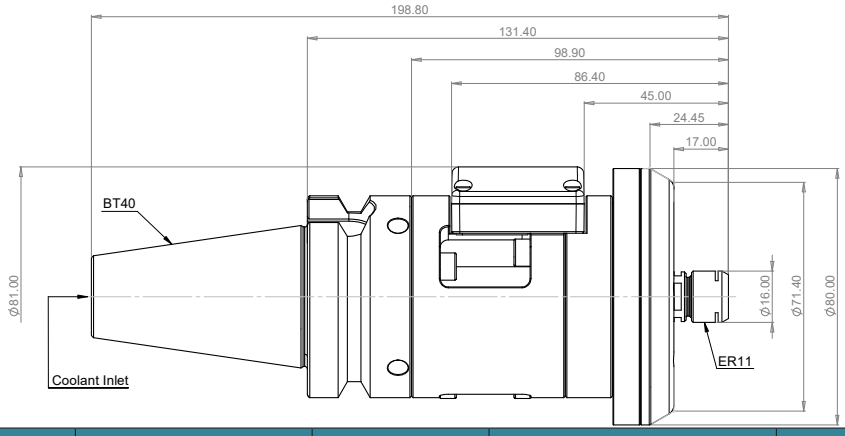


Designation	P/N	Adapter	L mm	Tool d max mm	Kg
POWER Jet BT30	47-085-399	**BT30**	137.40	6.0	2.1

FILES AVAILABLE FOR DOWNLOAD IN ONLINE CATALOG: https://colibrispindles.com/catalog/		
BT30 Primary View 2D – DXF	BT30 Model 3D Detail – STP	BT30 Model 3D Light – STP

COMPATIBLE ADAPTOR MODELS										
Adapter	ST20	ER32	BT30	BT40	HSK A63	HSK A40	C5	C6	SK40	CAT40





Designation	P/N	Adapter	L mm	Tool d max mm	Kg
POWER Jet BT40	47-085-799	**BT40**	131.40	6.0	2.6

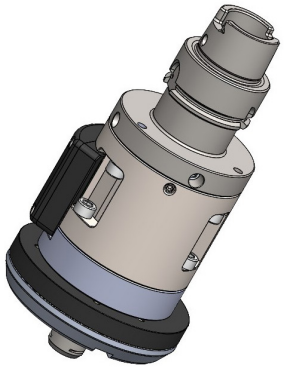
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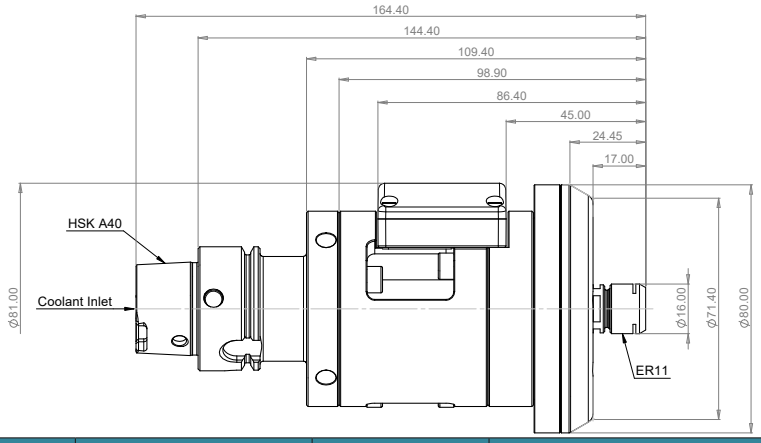
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POWER Jet

COMPATIBLE ADAPTOR MODELS										
Adapter	ST20	ER32	BT30	BT40	HSK A40	HSK A63	C5	C6	SK40	CAT40

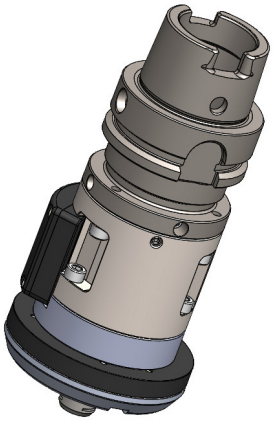


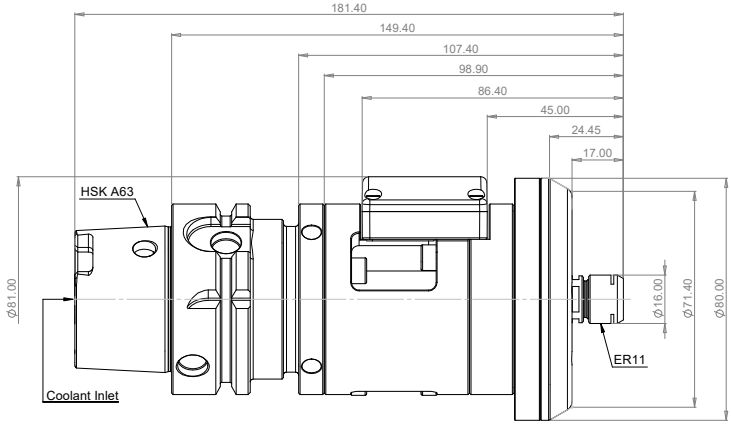


Designation	P/N	Adapter	L mm	Tool d max mm	Kg
POWER Jet HSK A40	47-085-249	**HSK A40**	144.40	6.0	2.0

FILES AVAILABLE FOR DOWNLOAD IN ONLINE CATALOG: https://colibrispindles.com/catalog/		
HSK A40 Primary View 2D – DXF	HSK A40 Model 3D Detail – STP	HSK A40 Model 3D Light – STP

COMPATIBLE ADAPTOR MODELS										
Adapter	ST20	ER32	BT30	BT40	HSK A40	HSK A63	C5	C6	SK40	CAT40





Designation	P/N	Adapter	L mm	Tool d max mm	Kg
POWER Jet HSK A63	47-085-299	**HSK A63**	149.40	6.0	2.5

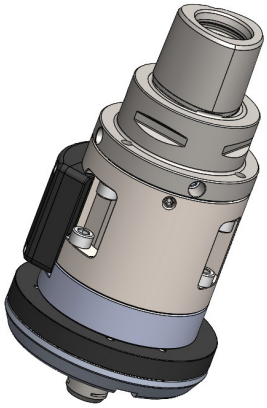
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HSK A63 Primary View 2D – DXF	HSK A63 Model 3D Detail – STP	HSK A63 Model 3D Light – STP

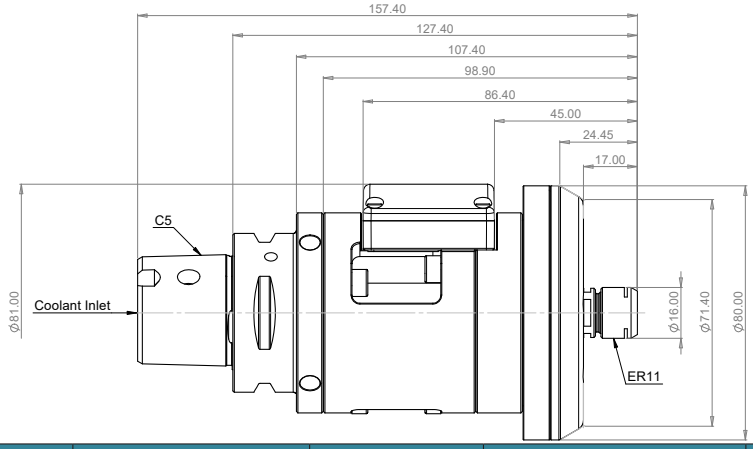
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JET SPINDLE PRO

POWER Jet

COMPATIBLE ADAPTOR MODELS										
Adapter	ST20	ER32	BT30	BT40	HSK A63	HSK A40	C5	C6	SK40	CAT40

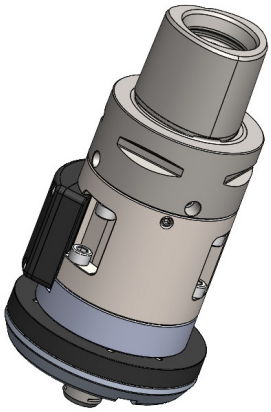


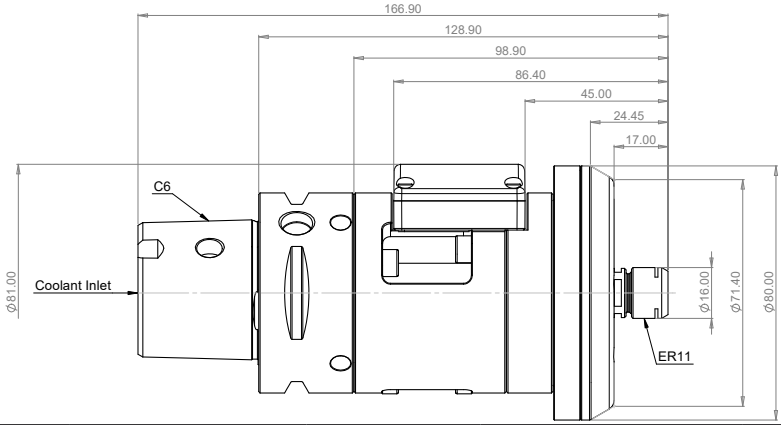


Designation	P/N	Adapter	L mm	Tool d max mm	Kg
POWER Jet C5	47-085-499	**C5**	127.40	6.0	2.1

FILES AVAILABLE FOR DOWNLOAD IN ONLINE CATALOG: https://colibrispindles.com/catalog/		
C5 Primary View 2D – DXF	C5 Model 3D Detail – STP	C5 Model 3D Light – STP

COMPATIBLE ADAPTOR MODELS										
Adapter	ST20	ER32	BT30	BT40	HSK A63	HSK A40	C5	C6	SK40	CAT40





Designation	P/N	Adapter	L mm	Tool d max mm	Kg
POWER Jet C6	47-085-199	**C6**	128.90	6.0	2.4

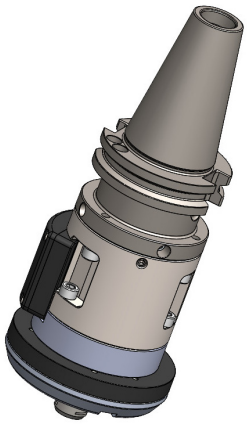
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C6 Primary View 2D – DXF	C6 Model 3D Detail – STP	C6 Model 3D Light – STP

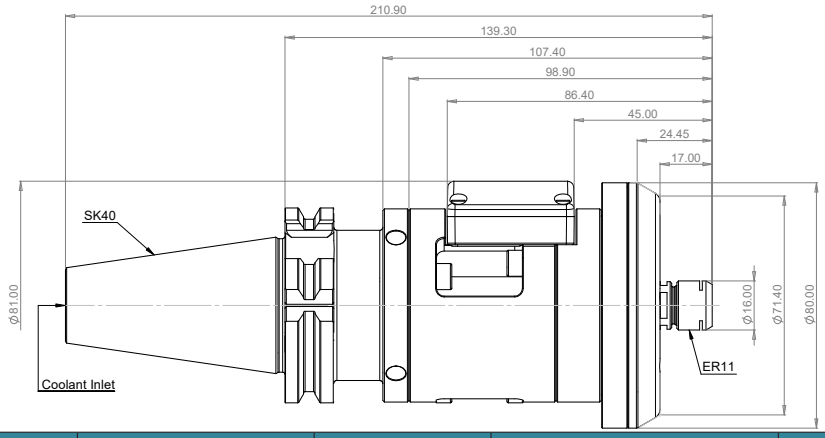
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JET SPINDLE PRO

POWER Jet

COMPATIBLE ADAPTOR MODELS										
Adapter	ST20	ER32	BT30	BT40	HSK A63	HSK A40	C5	C6	SK40	CAT40

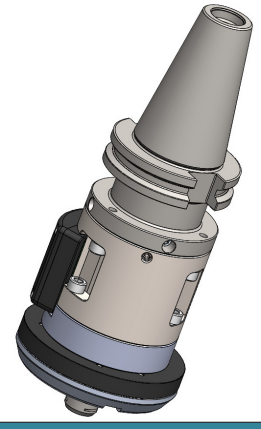


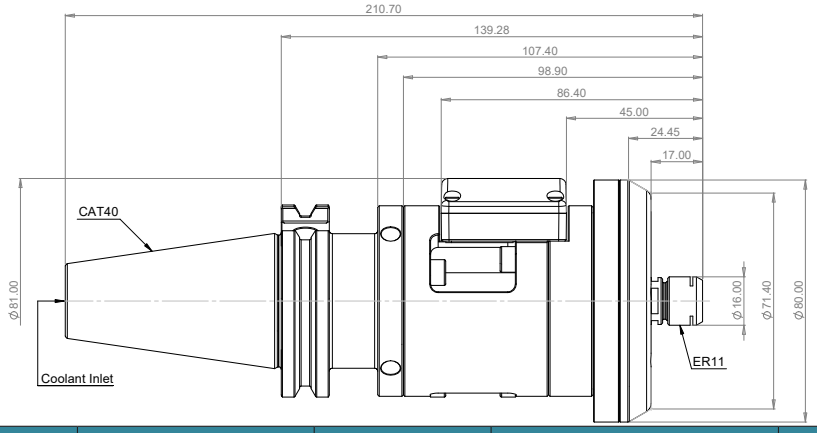


Designation	P/N	Adapter	L mm	Tool d max mm	Kg
POWER Jet SK40	47-085-849	**SK40**	139.30	6.0	2.7

FILES AVAILABLE FOR DOWNLOAD IN ONLINE CATALOG: https://colibrispindles.com/catalog/		
SK40 Primary View 2D – DXF	SK40 Model 3D Detail – STP	SK40 Model 3D Light – STP

COMPATIBLE ADAPTOR MODELS										
Adapter	ST20	ER32	BT30	BT40	HSK A63	HSK A40	C5	C6	SK40	CAT40





Designation	P/N	Adapter	L mm	Tool d max mm	Kg
POWER Jet CAT40	47-085-699	**CAT40**	139.28	6.0	2.6

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CAT40 Primary View 2D – DXF	CAT40 Model 3D Detail – STP	CAT40 Model 3D Light – STP

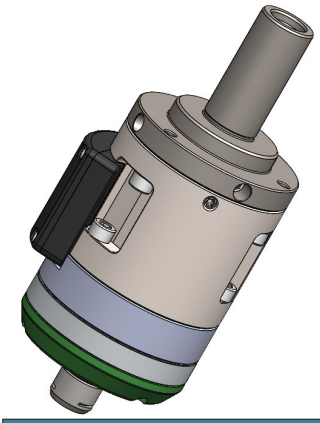
COLIBRI SPINDLES

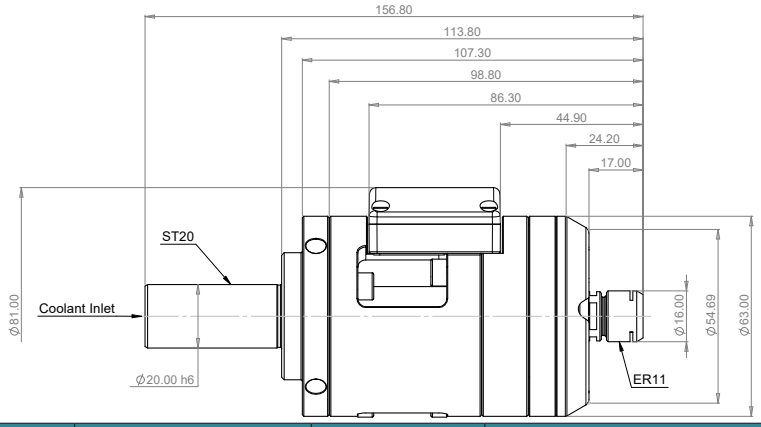
JET SPINDLE PRO

SPEED Jet

COMPATIBLE ADAPTOR MODELS

Adapter	ST20	ER32	BT30	BT40	HSK A40	HSK A63	C5	C6	SK40	CAT40





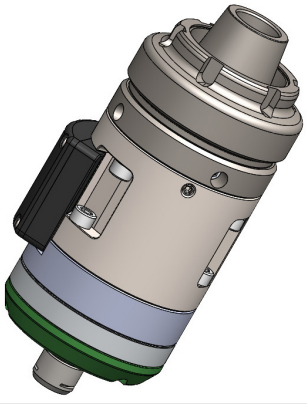
Designation	P/N	Adapter	L mm	Tool d max mm	Kg
SPEED Jet ST20	37-085-099	**ST20**	113.80	4.0	1.7

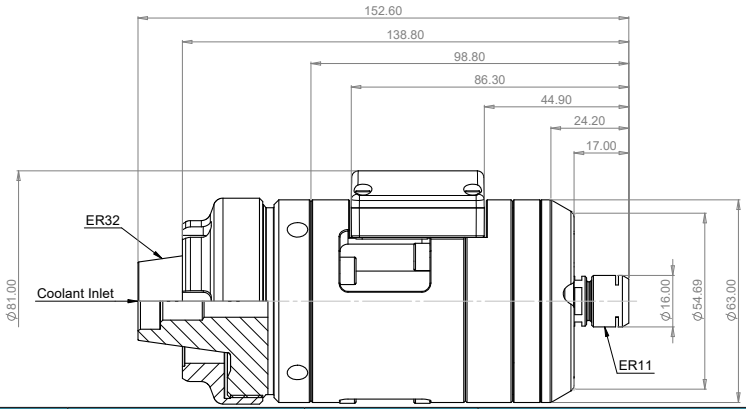
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ST20 Primary View 2D – DXF	ST20 Model 3D Detail – STP	ST20 Model 3D Light – STP

COMPATIBLE ADAPTOR MODELS

Adapter	ST20	ER32	BT30	BT40	HSK A40	HSK A63	C5	C6	SK40	CAT40





Designation	P/N	Adapter	L mm	Tool d max mm	Kg
SPEED Jet ER32	37-085-599	**ER32**	125.80	4.0	2.2

FILES AVAILABLE FOR DOWNLOAD IN ONLINE CATALOG: https://colibrispindles.com/catalog/

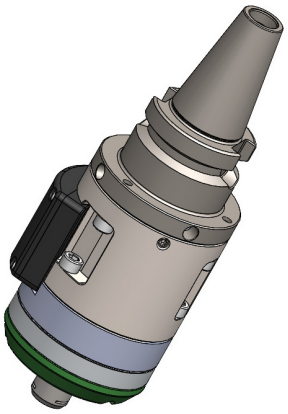
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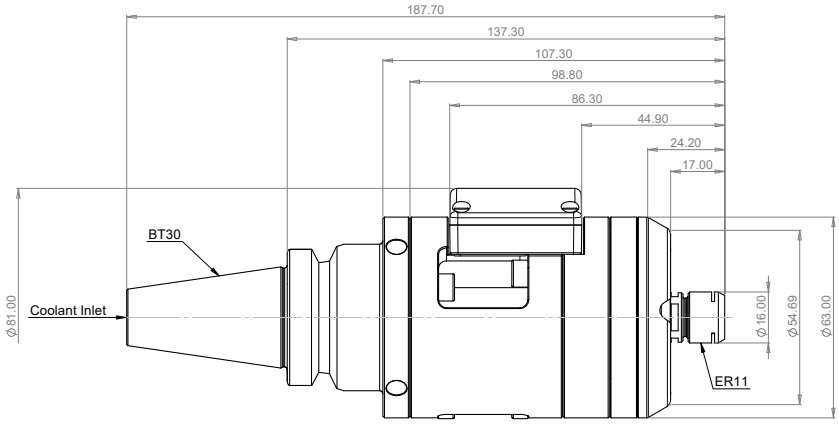
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JET SPINDLE PRO

SPEED Jet

COMPATIBLE ADAPTOR MODELS										
Adapter	ST20	ER32	**BT30**	BT40	HSK A40	HSK A63	C5	C6	SK40	CAT40

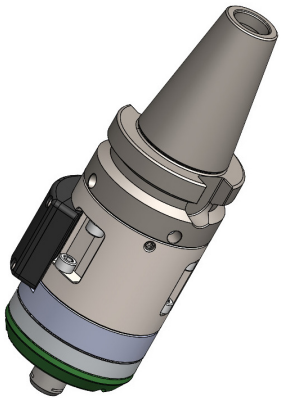


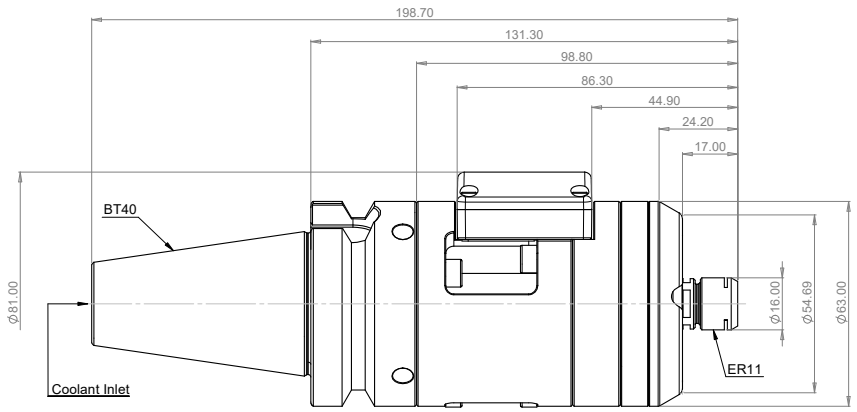


Designation	P/N	Adapter	L mm	Tool d max mm	Kg
SPEED Jet BT30	37-085-399	**BT30**	137.30	4.0	2.0

FILES AVAILABLE FOR DOWNLOAD IN ONLINE CATALOG: https://colibrispindles.com/catalog/		
BT30 Primary View 2D – DXF	BT30 Model 3D Detail – STP	BT30 Model 3D Light – STP

COMPATIBLE ADAPTOR MODELS										
Adapter	ST20	ER32	BT30	**BT40**	HSK A40	HSK A63	C5	C6	SK40	CAT40





Designation	P/N	Adapter	L mm	Tool d max mm	Kg
SPEED Jet BT40	37-085-799	**BT40**	131.30	4.0	2.5

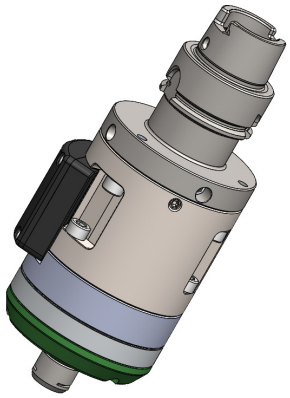
FILES AVAILABLE FOR DOWNLOAD IN ONLINE CATALOG: https://colibrispindles.com/catalog/		
BT40 Primary View 2D – DXF	BT40 Model 3D Detail – STP	BT40 Model 3D Light – STP

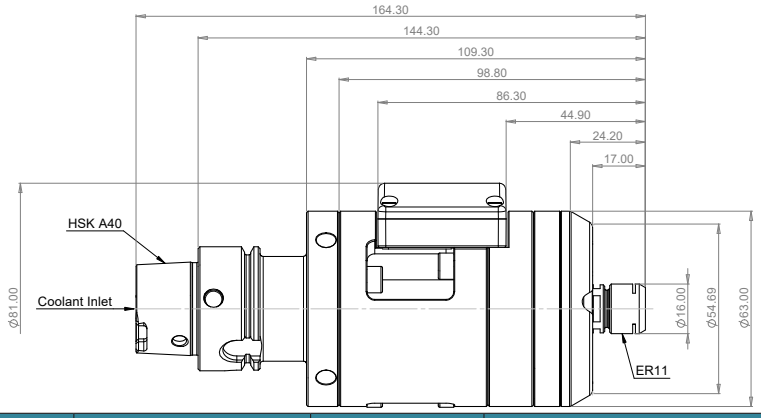
COLIBRI SPINDLES

JET SPINDLE PRO

SPEED Jet

COMPATIBLE ADAPTOR MODELS										
Adapter	ST20	ER32	BT30	BT40	HSK A40	HSK A63	C5	C6	SK40	CAT40

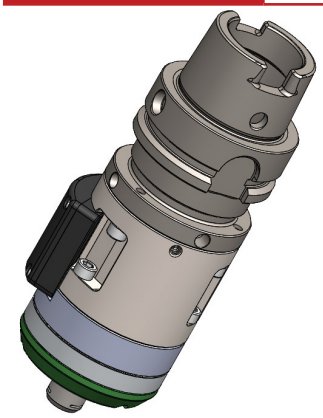


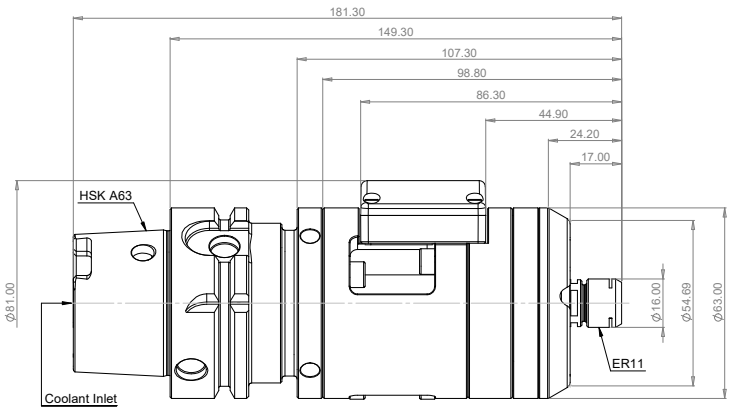


Designation	P/N	Adapter	L mm	Tool d max mm	Kg
SPEED Jet HSK A40	37-085-249	**HSK A40**	144.30	4.0	1.9

FILES AVAILABLE FOR DOWNLOAD IN ONLINE CATALOG: https://colibrispindles.com/catalog/		
HSK A40 Primary View 2D – DXF	HSK A40 Model 3D Detail – STP	HSK A40 Model 3D Light – STP

COMPATIBLE ADAPTOR MODELS										
Adapter	ST20	ER32	BT30	BT40	HSK A40	HSK A63	C5	C6	SK40	CAT40





Designation	P/N	Adapter	L mm	Tool d max mm	Kg
SPEED Jet HSK A63	37-085-299	**HSK A63**	149.30	4.0	2.4

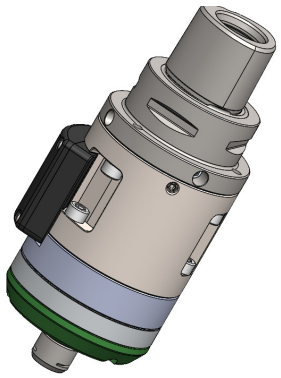
FILES AVAILABLE FOR DOWNLOAD IN ONLINE CATALOG: https://colibrispindles.com/catalog/		
HSK A63 Primary View 2D – DXF	HSK A63 Model 3D Detail – STP	HSK A63 Model 3D Light – STP

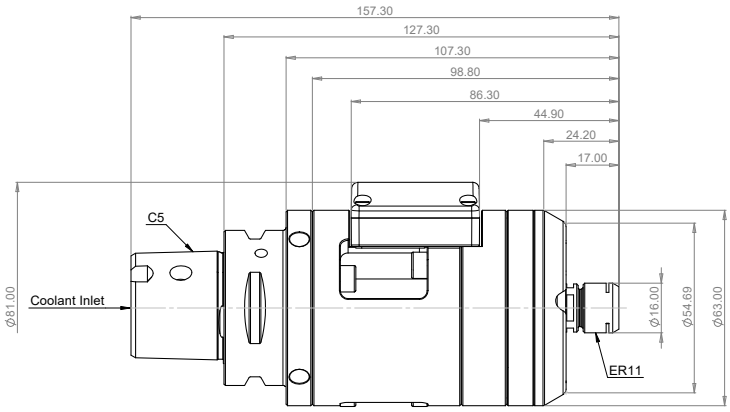
COLIBRI SPINDLES

JET SPINDLE PRO

SPEED Jet

COMPATIBLE ADAPTOR MODELS										
Adapter	ST20	ER32	BT30	BT40	HSK A40	HSK A63	C5	C6	SK40	CAT40

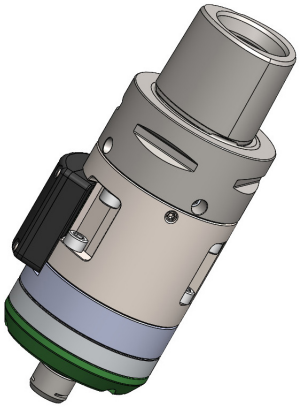


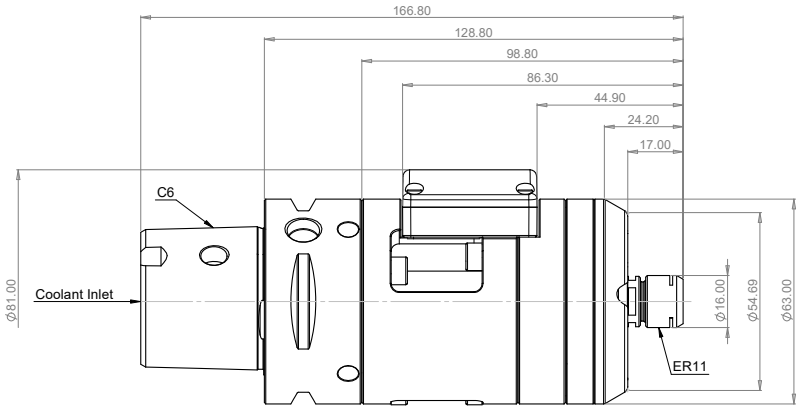


Designation	P/N	Adapter	L mm	Tool d max mm	Kg
SPEED Jet C5	37-085-499	**C5**	127.30	4.0	2.0

FILES AVAILABLE FOR DOWNLOAD IN ONLINE CATALOG: https://colibrispindles.com/catalog/		
C5 Primary View 2D – DXF	C5 Model 3D Detail – STP	C5 Model 3D Light – STP

COMPATIBLE ADAPTOR MODELS										
Adapter	ST20	ER32	BT30	BT40	HSK A40	HSK A63	C5	C6	SK40	CAT40





Designation	P/N	Adapter	L mm	Tool d max mm	Kg
SPEED Jet C6	37-085-199	**C6**	128.80	4.0	2.3

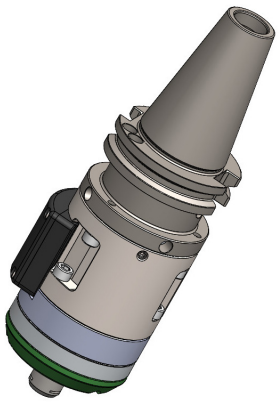
FILES AVAILABLE FOR DOWNLOAD IN ONLINE CATALOG: https://colibrispindles.com/catalog/		
C6 Primary View 2D – DXF	C6 Model 3D Detail – STP	C6 Model 3D Light – STP

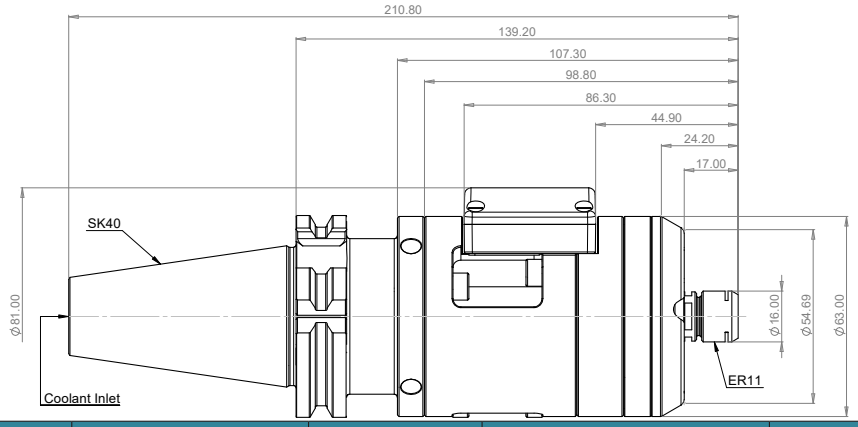
COLIBRI SPINDLES

JET SPINDLE PRO

SPEED Jet

COMPATIBLE ADAPTOR MODELS										
Adapter	ST20	ER32	BT30	BT40	HSK A40	HSK A63	C5	C6	SK40	CAT40

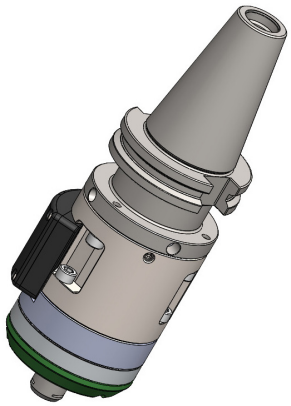


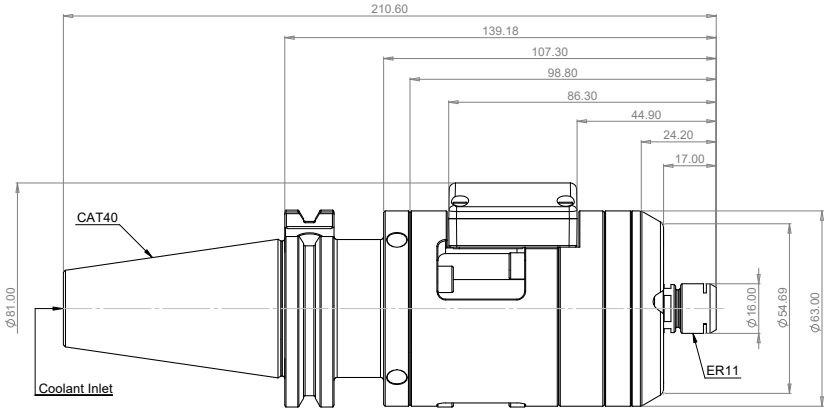


Designation	P/N	Adapter	L mm	Tool d max mm	Kg
SPEED Jet SK40	37-085-849	**SK40**	139.20	4.0	2.6

FILES AVAILABLE FOR DOWNLOAD IN ONLINE CATALOG: https://colibrispindles.com/catalog/		
SK40 Primary View 2D – DXF	SK40 Model 3D Detail – STP	SK40 Model 3D Light – STP

COMPATIBLE ADAPTOR MODELS										
Adapter	ST20	ER32	BT30	BT40	HSK A40	HSK A63	C5	C6	SK40	CAT40





Designation	P/N	Adapter	L mm	Tool d max mm	Kg
SPEED Jet CAT40	37-085-699	**CAT40**	139.18	4.0	2.5

FILES AVAILABLE FOR DOWNLOAD IN ONLINE CATALOG: https://colibrispindles.com/catalog/		
CAT40 Primary View 2D – DXF	CAT40 Model 3D Detail – STP	CAT40 Model 3D Light – STP

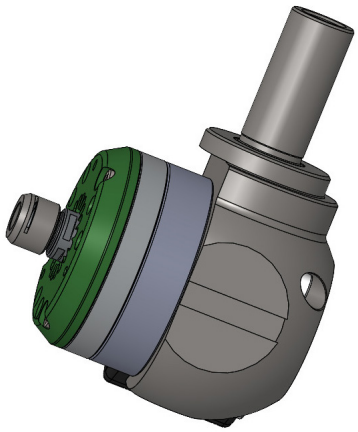
COLIBRI SPINDLES

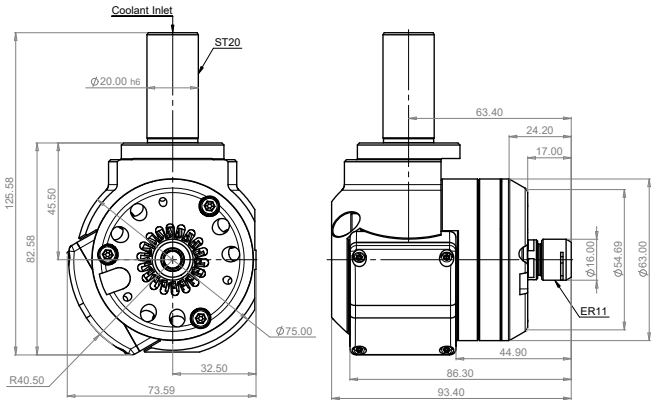
JET SPINDLE PRO

90DEGJet

COMPATIBLE ADAPTOR MODELS

Adapter	ST20 90D SPEED Jet	ST20 90D POWER Jet





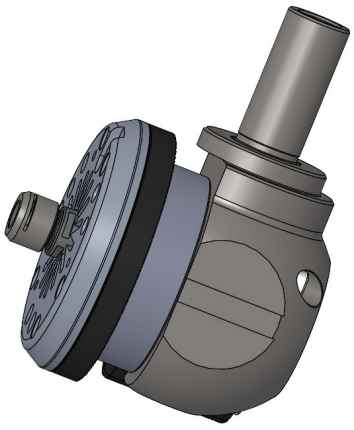
Designation	P/N	Adapter	L mm	Tool d max mm	Kg
ST20 90D SPEED Jet	37-035-999	**ST20**	82.70	4.0	1.6

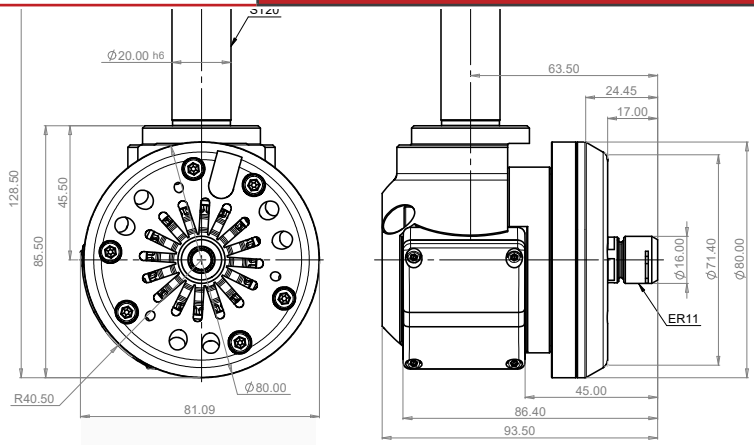
FILES AVAILABLE FOR DOWNLOAD IN ONLINE CATALOG: https://colibrispindles.com/catalog/

ST20 90D SPEED Jet Primary View 2D – DXF	ST20 90D SPEED Jet Model 3D Detail – STP

COMPATIBLE ADAPTOR MODELS

Adapter	ST20 90D SPEED Jet	ST20 90D POWER Jet





Designation	P/N	Adapter	L mm	Tool d max mm	Kg
ST20 90D POWER Jet	47-055-999	**ST20**	85.50	6.0	1.7

FILES AVAILABLE FOR DOWNLOAD IN ONLINE CATALOG: https://colibrispindles.com/catalog/

ST20 90D POWER Jet Primary View 2D – DXF	ST20 90D POWER Jet Model 3D Detail – STP

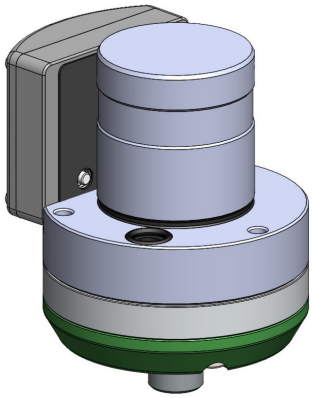
COLIBRI SPINDLES

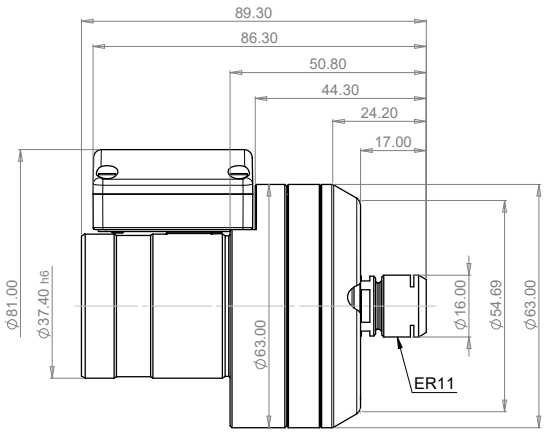
JET SPINDLE PRO

TR Jet

COMPATIBLE ADAPTOR MODELS

Adapter	SPEED Jet TR	POWER Jet TR





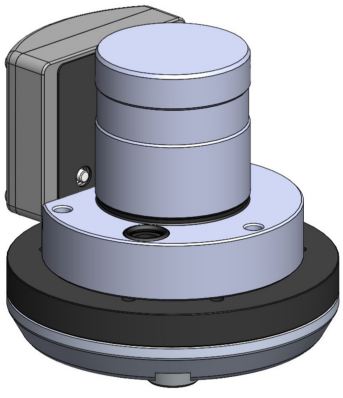
Designation	P/N	Adapter	L mm	Tool d max mm	Kg
SPEED Jet TR	37-085-996	**FLANGE CLAMP**	89.30	4.0	0.7

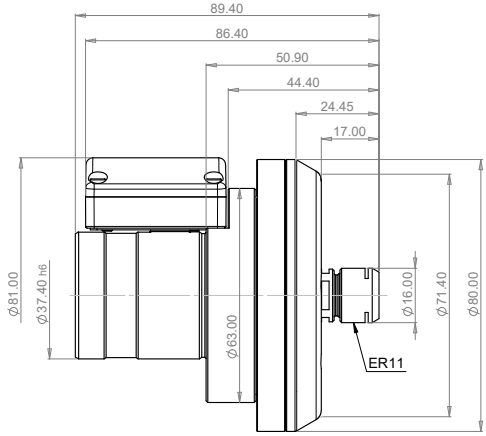
FILES AVAILABLE FOR DOWNLOAD IN ONLINE CATALOG: https://colibrispindles.com/catalog/

SPEED Jet TR Primary View 2D – DXF	SPEED Jet TR Model 3D Detail – STP

COMPATIBLE ADAPTOR MODELS

Adapter	SPEED Jet TR	POWER Jet TR





Designation	P/N	Adapter	L mm	Tool d max mm	Kg
POWER Jet TR	47-085-996	**FLANGE CLAMP**	89.40	6.0	0.8

FILES AVAILABLE FOR DOWNLOAD IN ONLINE CATALOG: https://colibrispindles.com/catalog/

POWER Jet TR Primary View 2D – DXF	POWER Jet TR Model 3D Detail – STP

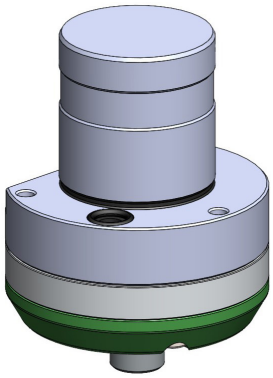
COLIBRI SPINDLES

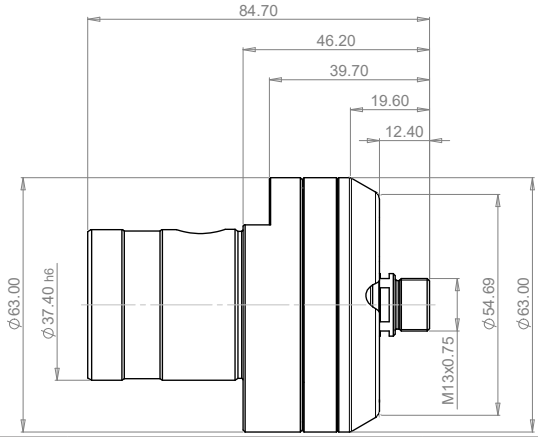
JET SPINDLE PRO

TR Jet

COMPATIBLE ADAPTOR MODELS

Adapter	SPEED Jet TR Cartridge	POWER Jet TR Cartridge





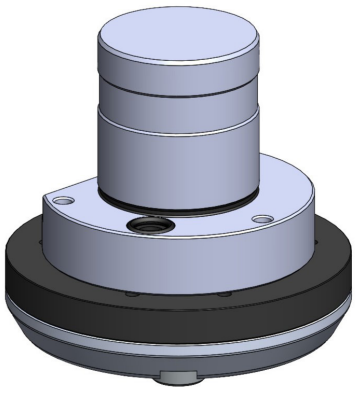
Designation	P/N	Adapter	L mm	Tool d max mm	Kg
SPEED Jet TR Cartridge	37-085-997	**FLANGE CLAMP**	89.30	4.0	0.7

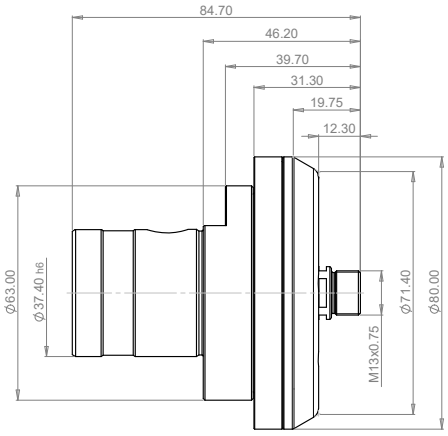
FILES AVAILABLE FOR DOWNLOAD IN ONLINE CATALOG: https://colibrispindles.com/catalog/

SPEED Jet TR Cartridge Primary View 2D – DXF	SPEED Jet TR Cartridge Model 3D Detail – STP

COMPATIBLE ADAPTOR MODELS

Adapter	SPEED Jet TR Cartridge	POWER Jet TR Cartridge





Designation	P/N	Adapter	L mm	Tool d max mm	Kg
POWER Jet TR Cartridge	47-085-997	**FLANGE CLAMP**	89.40	6.0	0.8

FILES AVAILABLE FOR DOWNLOAD IN ONLINE CATALOG: https://colibrispindles.com/catalog/

POWER Jet TR Cartridge Primary View 2D – DXF	POWER Jet TR Cartridge Model 3D Detail – STP

COLIBRI SPINDLES

JET SPINDLE PRO

Speed Sensor App

iPhone & iPad
iOS

Requires iOS 10 or newer. Click on the button below or search “Jet Spindle Monitor” on your device or just scan the QR code.

Download on the App Store

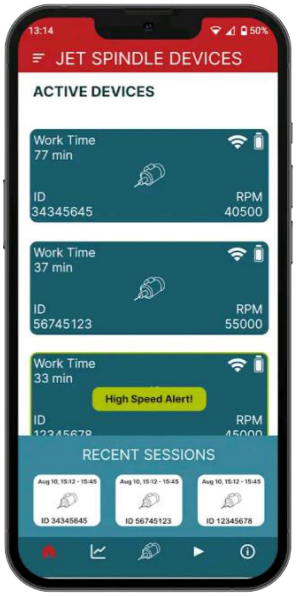
Android Phone & Device
Android

Requires Android 10 or newer. Click on the button below or search “Jet Spindle Monitor” on your device or just scan the QR code.

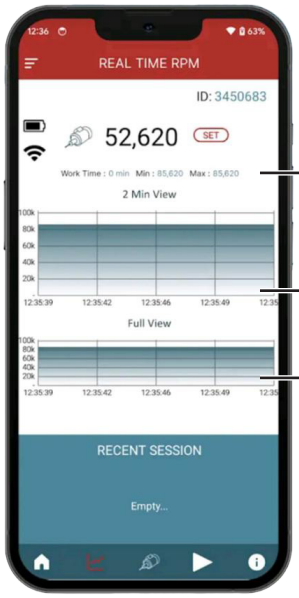
GET IT ON Google Play

Jet Spindle Monitor

1. Turn on the machine’s high-pressure coolant pump
2. RPM speed will be displayed in the app automatically
3. Adjust cutting conditions, based on the resulting speed



Tap on a Jet Spindle to see a detailed overview



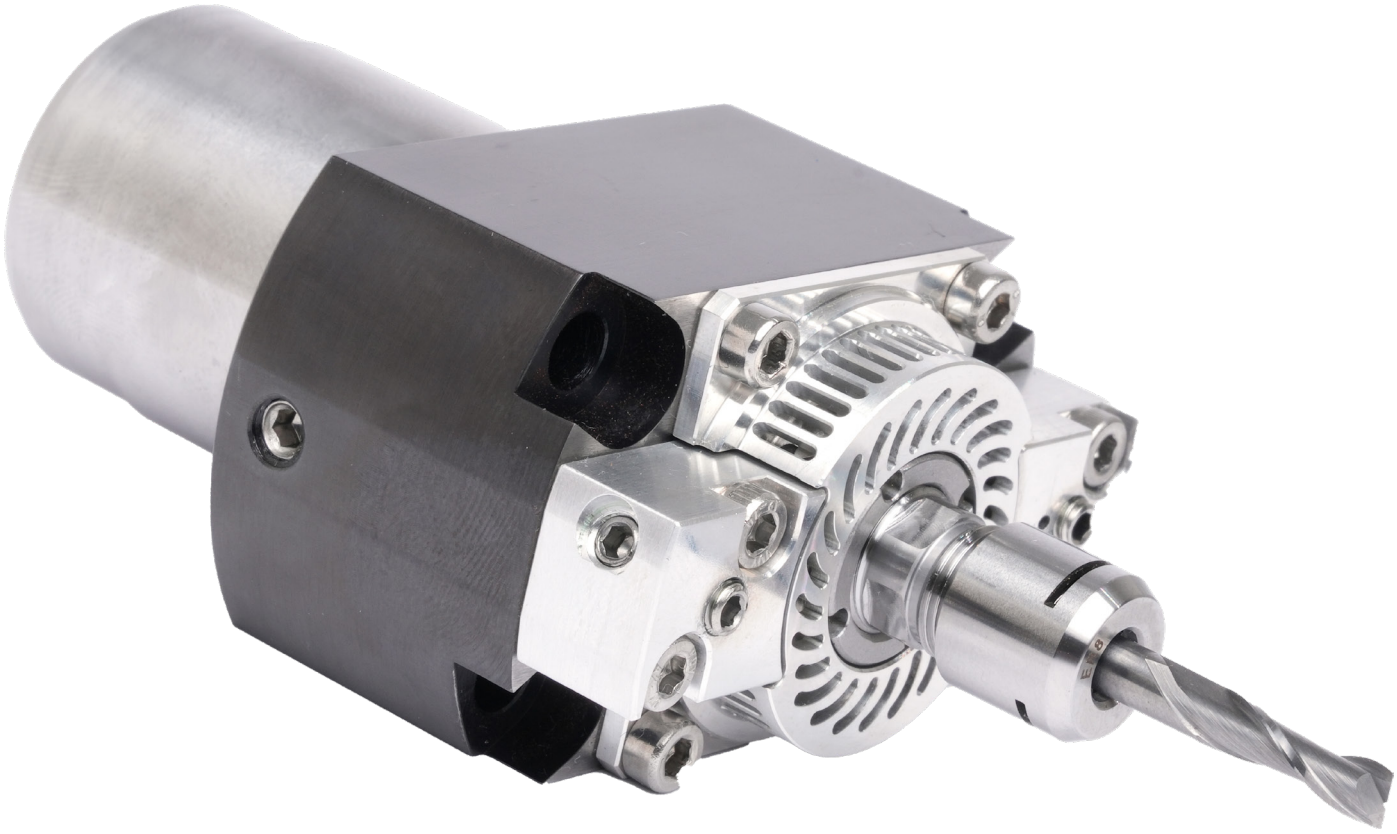
Detailed Jet information

Detailed 2 Minutes View

Full View

COLIBRI SPINDLES

SWISS Jet



COLIBRI SWISS JET - Universal for all Swiss Type Lathes

UNIVERSAL
For All Swiss Type Lathes
Replaceable Jet Spindle Cartridge
Connect it like any holder
Plug and Play

COLIBRI SPINDLES

SWISS Jet

Operating Data

JET SPINDLE OPERATING PARAMETERS						SWISS JET	
HIGH PRESSURE COOLANT (BAR)	15 BAR	20 BAR	25 BAR	35 BAR	45 BAR	Terms of Use	
Min Coolant Supply Diameter [mm]	4.0					**Collet**	ER8 AA/UP
Min flow rate (L/min)	12	14	16	18	20	**Runout**	3 Microns
Rotational spindle speed [RPM]*	30,000	36,000	38,000	46,000	56,000	**Warranty**	1 Year

*** Notes:**
- Rotational spindle speed is based on coolant pressure and flow rate.
- Coolant pressure is measured at the spindle inlet.

Max. Tool Diameter [mm]	P	M	N [Al]	N [Cu]	S [Ti]
Drilling	2.0		3.0	2.0	
Profile Milling	3.0	5.0			
Slot Milling	3.0	5.0		3.0	
Shoulder Milling	3.0	5.0		5.0	
Chamfering	4.0				
Deburring					
Engraving					

JET SPINDLE OPERATING PARAMETERS

MILLING
- Slotting - up to D=5.0mm, ap= 0.05D
- Shouldering - up to D=5.0mm, ae=0.1D & ap=0.1D

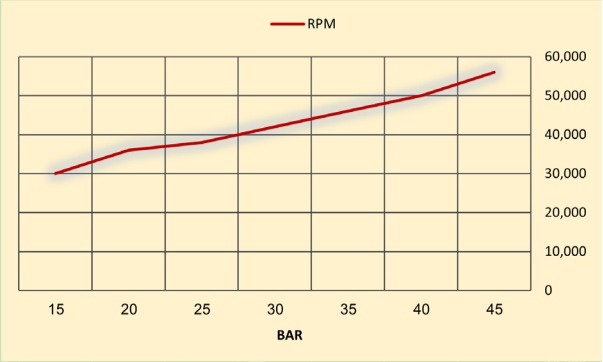
THREAD MILLING
- Max. M3 thread

DRILLING
- Max drill dia. 3.00mm

DEBURRING
- Max tool dia. 5.00mm
- Can use 45 to 60 degree end-mill

ENGRAVING
- Max tool dia. 5.00mm
- Max Ap 0.25mm

BAR	Idle Speed RPM
15	30,000
20	36,000
25	38,000
30	42,000
35	46,000
40	50,000
45	56,000



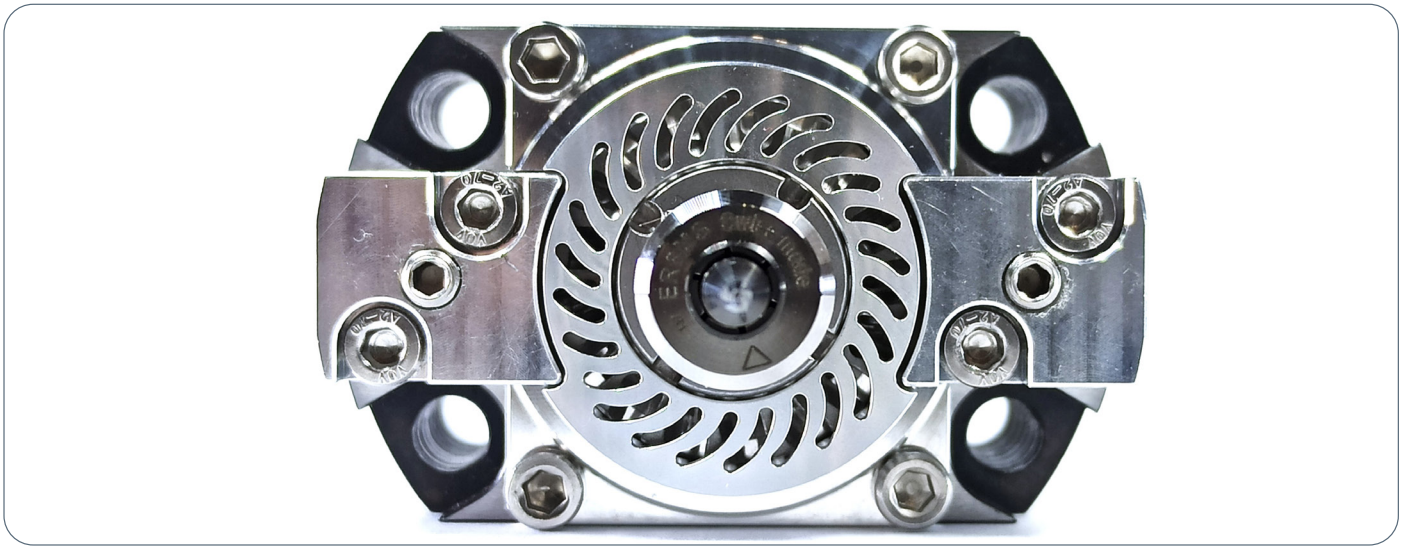
Features

The SWISS Jet Spindle supports all Swiss type lathes, with **Plug and Play**, high-precision, high-speed sub spindles, that are as simple to install as any sleeve holder tool. Runout up to 3 Micron at the ER 8 cone, speed up to 56,000 RPM and power combine to ensure faster, higher quality machining with extended tool life for small cutting tools with shanks up to 5.00 mm or 3/16" diameter.

COLIBRI SPINDLES

SWISS Jet

Clamping and Coolant



When machining at high speeds you must have a high precision spindle that provides the speed, accuracy and power using high-precision nut & collet to optimize dynamic balancing with pinpointed coolant to the cutting edge. **Assures a simple tool change with no setup time and a low runout**.

Coolant outlets from the turbine outlet and a nozzle point to the cutting edge.

SWISS Nut & Collet

ER 8 High Precision Nut

ER 8 High Precision Collet Ø 4.00 mm (5/32") *

* needs to be ordered separately





SWISS Wrench & Spanner

ER 8 Wrench
9mm Spanner



COLIBRI SPINDLES

SWISS Jet

Availability

All items in stock

Prices

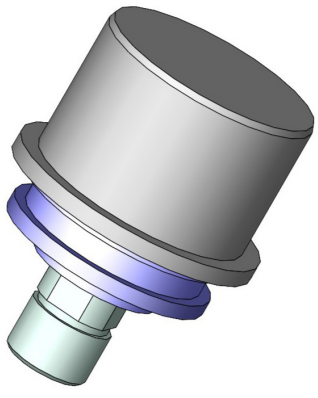
Your price list will be provided upon request

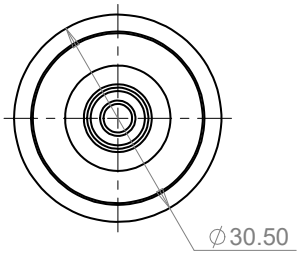
Each package contains

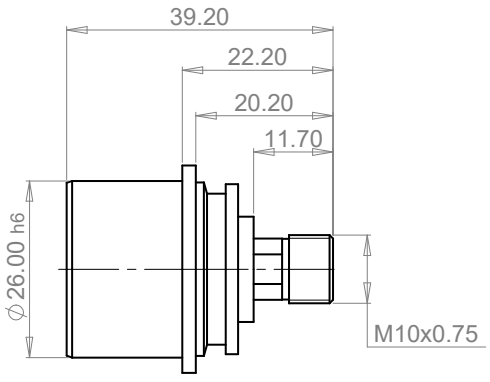
1x SWISS JET Spindle
1x High Precision ER 8 Nut
1x ER 8 Wrench
1x 9mm Spanner
4x M5x30 Screws (only included with 97-000-310)

Note: Idle Speed Monitor KIT needs to be ordered separately

SWISS JET CARTRIDGE







Designation	P/N	D mm	L mm	Tool d max mm	Kg
SWISS JET CARTRIDGE	TJMI-DS01	26	39.2	5.0	0.087

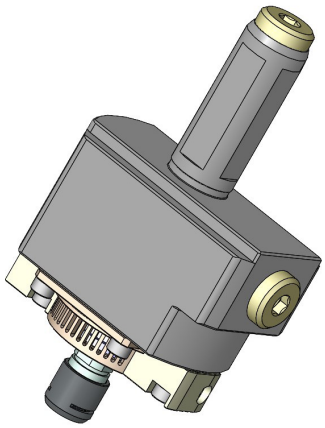
FILES AVAILABLE FOR DOWNLOAD IN ONLINE CATALOG: https://colibrispindles.com/catalog/

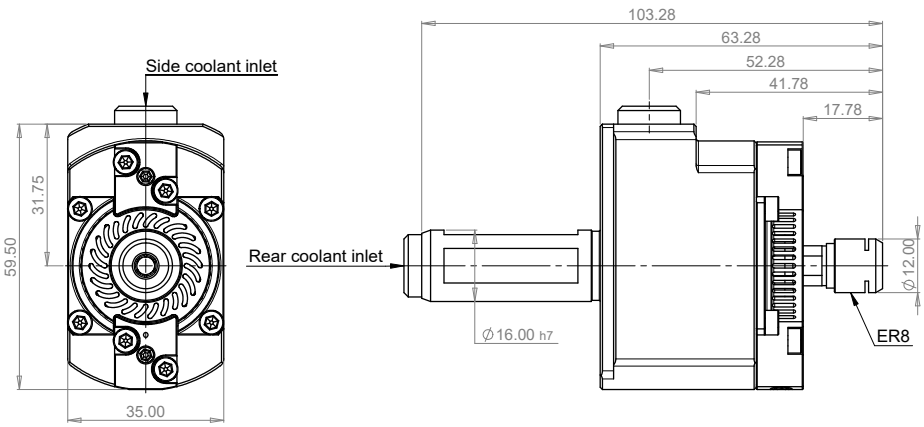
DXF - 2D	STEP - 3D Detail	STEP - 3D Light

COLIBRI SPINDLES

SWISS Jet

COMPATIBLE ADAPTOR MODELS								
Adapter	160	160 90D	190	200	220	250	254	310



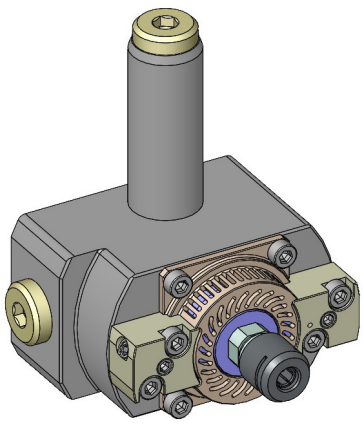


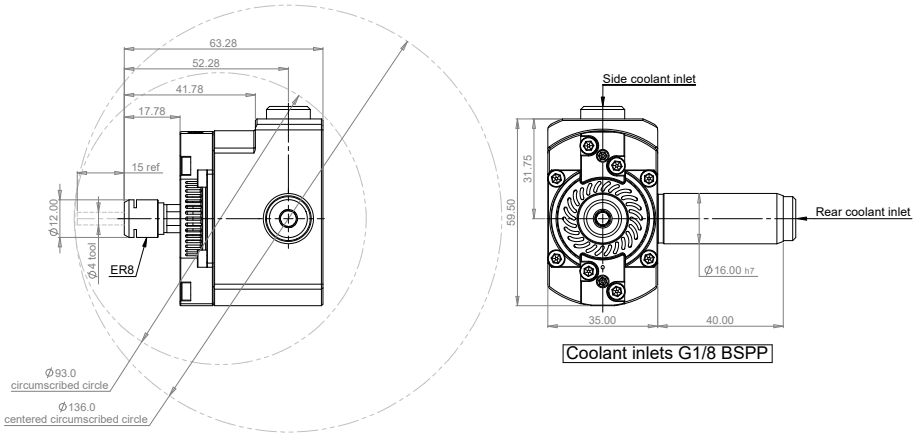
Designation	P/N	D mm	L mm	Tool d max mm	Kg
SWISS JET 160	97-000-160	16.00	63.5	5.0	0.57

FILES AVAILABLE FOR DOWNLOAD IN ONLINE CATALOG: https://colibrispindles.com/catalog/

DXF - 2D	STEP - 3D Detail	STEP - 3D Light

COMPATIBLE ADAPTOR MODELS								
Adapter	160	160 90D	190	200	220	250	254	310





Designation	P/N	D mm	L mm	Tool d max mm	Kg
SWISS JET 160 90D	97-000-160_90	16.00	63.5	5.0	0.60

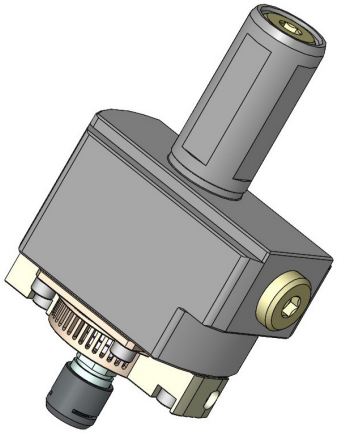
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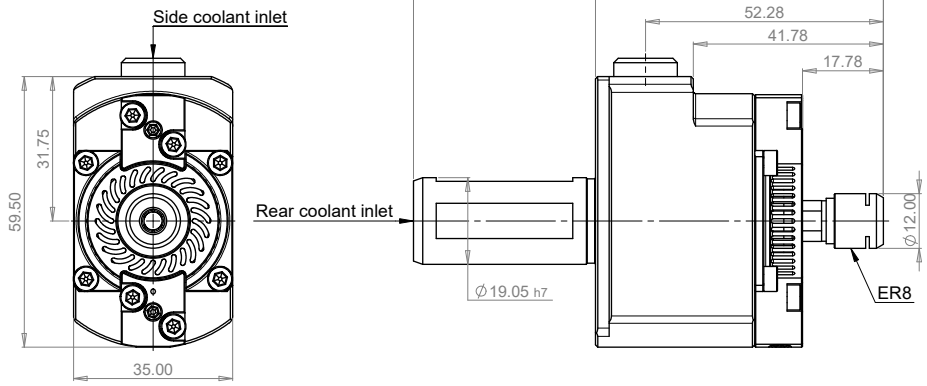
DXF - 2D	STEP - 3D Detail	STEP - 3D Light

COLIBRI SPINDLES

SWISS Jet

COMPATIBLE ADAPTOR MODELS								
Adapter	160	160 90D	190	200	220	250	254	310



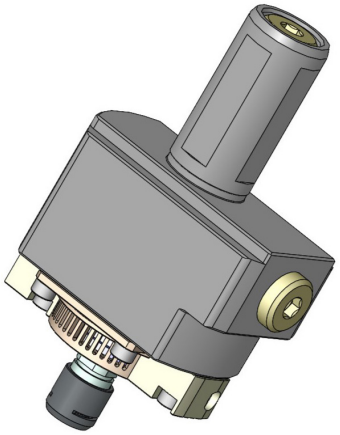


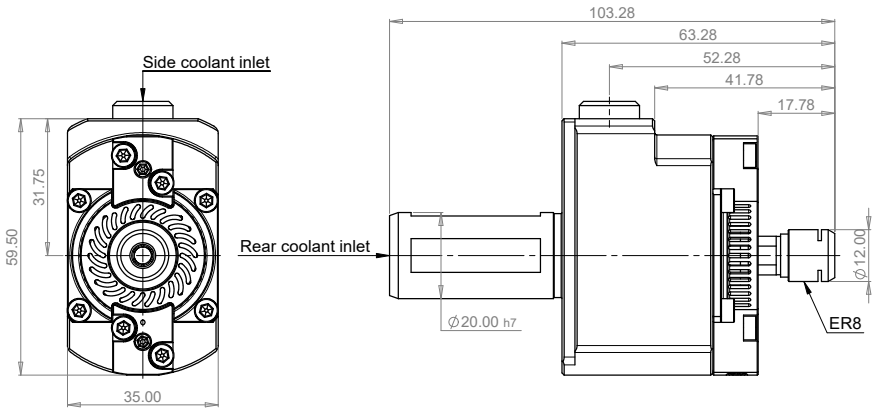
Designation	P/N	D mm	L mm	Tool d max mm	Kg
SWISS JET 190	97-000-190	19.05	63.5	5.0	0.60

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DXF - 2D	STEP - 3D Detail	STEP - 3D Light

COMPATIBLE ADAPTOR MODELS								
Adapter	160	160 90D	190	200	220	250	254	310





Designation	P/N	D mm	L mm	Tool d max mm	Kg
SWISS JET 200	97-000-200	20.00	63.5	5.0	0.60

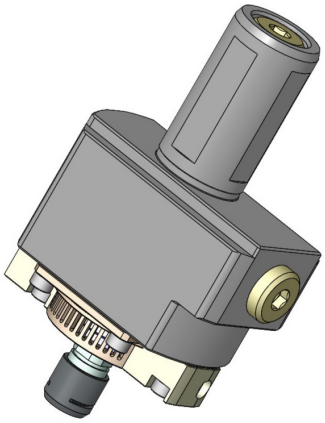
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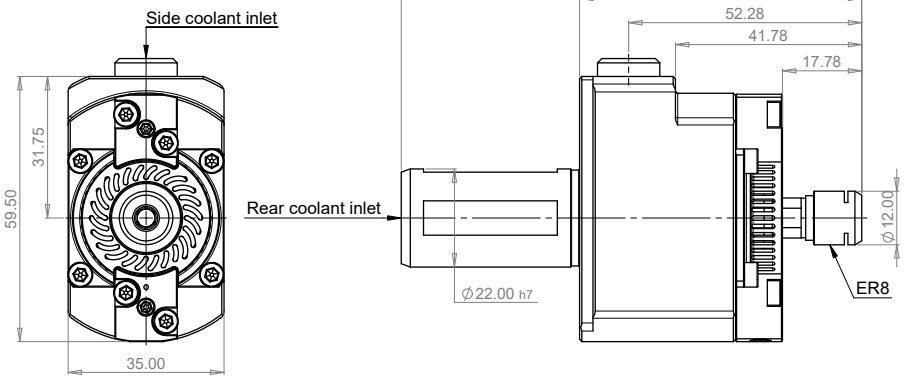
DXF - 2D	STEP - 3D Detail	STEP - 3D Light

COLIBRI SPINDLES

SWISS Jet

COMPATIBLE ADAPTOR MODELS								
Adapter	160	160 90D	190	200	220	250	254	310



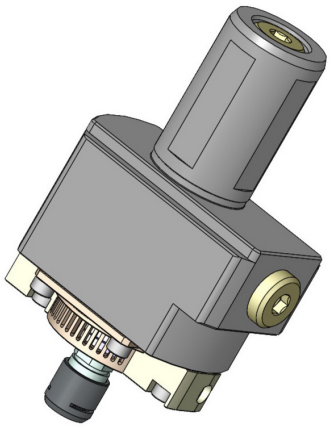


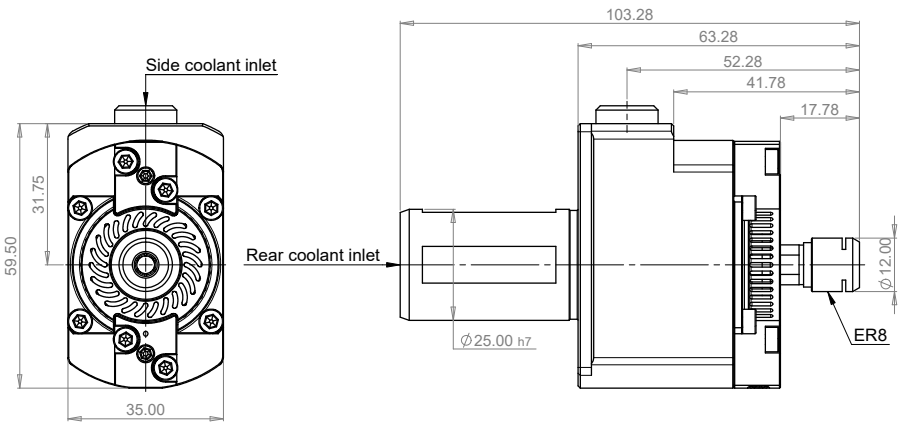
Designation	P/N	D mm	L mm	Tool d max mm	Kg
SWISS JET 220	97-000-220	22.00	63.5	5.0	0.63

FILES AVAILABLE FOR DOWNLOAD IN ONLINE CATALOG: https://colibrispindles.com/catalog/

DXF - 2D	STEP - 3D Detail	STEP - 3D Light

COMPATIBLE ADAPTOR MODELS								
Adapter	160	160 90D	190	200	220	250	254	310





Designation	P/N	D mm	L mm	Tool d max mm	Kg
SWISS JET 250	97-000-250	25.00	63.5	5.0	0.66

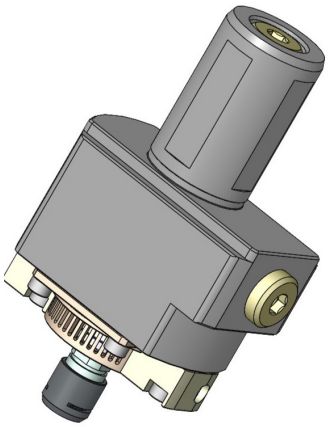
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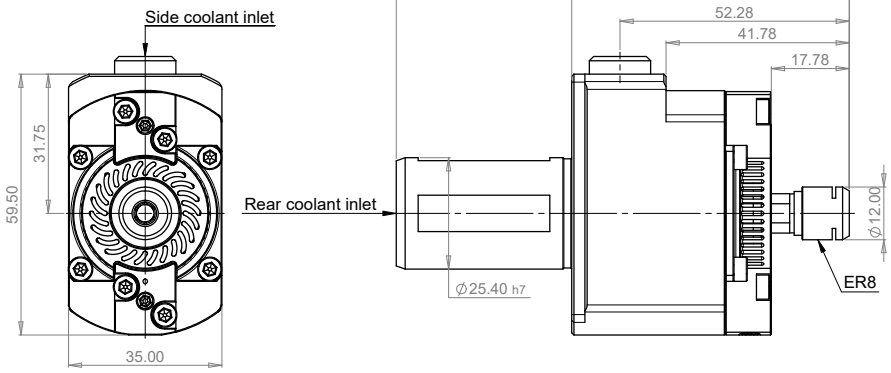
DXF - 2D	STEP - 3D Detail	STEP - 3D Light

COLIBRI SPINDLES

SWISS Jet

COMPATIBLE ADAPTOR MODELS								
Adapter	160	160 90D	190	200	220	250	254	310



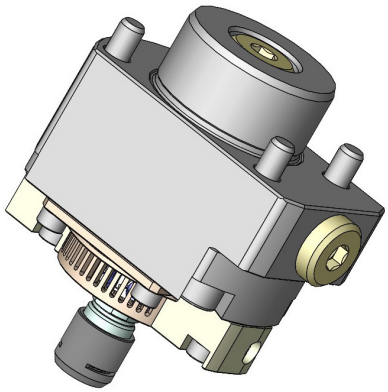


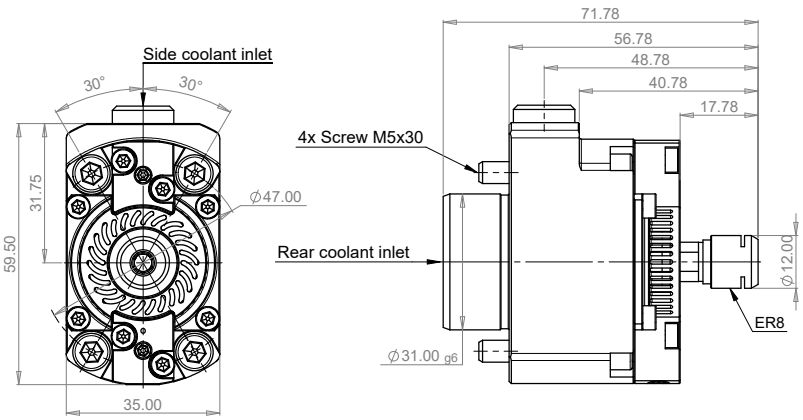
Designation	P/N	D mm	L mm	Tool d max mm	Kg
SWISS JET 254	97-000-254	25.40	63.5	5.0	0.67

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DXF - 2D	STEP - 3D Detail	STEP - 3D Light

COMPATIBLE ADAPTOR MODELS								
Adapter	160	160 90D	190	200	220	250	254	310





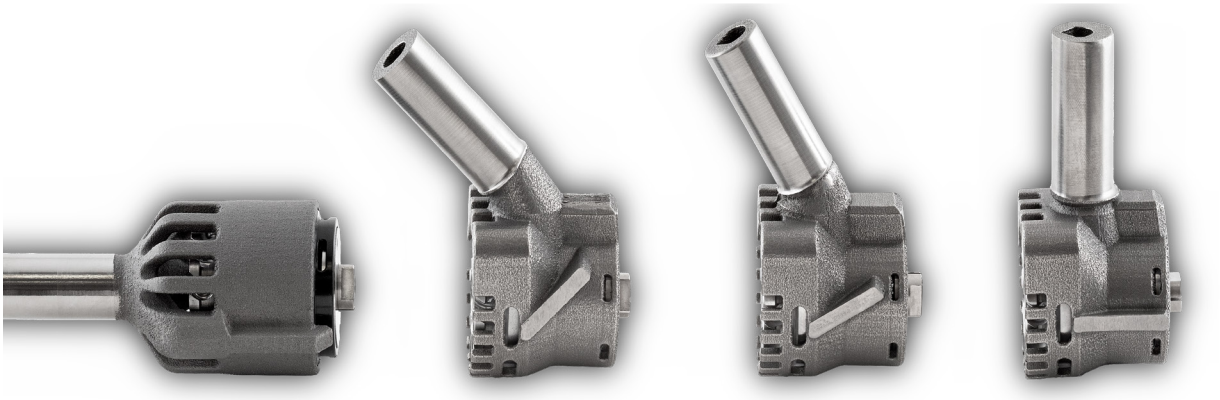
Designation	P/N	D mm	L mm	Tool d max mm	Kg
SWISS JET 310	97-000-310	31.00	57.0	5.0	0.51

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DXF - 2D	STEP - 3D Detail	STEP - 3D Light

COLIBRI SPINDLES

MICRO Jet



MICRO LINE Small High-Speed Jet Spindles for Milling and Drilling in Difficult to Reach Spaces





COLIBRI SPINDLES

MICRO Jet

Operating Data

JET SPINDLE OPERATING PARAMETERS				MICRO LINE	
HIGH PRESSURE COOLANT	15 BAR	20 BAR	40 BAR	Terms of Use	
Min Coolant Supply Diameter [mm]	4			Collet	0.500 to 3.175
Min flow rate (L/min)	10	12	20	Clamping Example	ST 20X100 ER16
Rotational spindle speed [RPM]*	18,000	23,000	40,000		ER16 SEAL 10 AA

Cutting Tools Diameter [mm]	P	M	S	N
Drilling	0.1 - 1.0			0.1 - 2.0
Ball Nose	0.5 - 3.0			
Chamfering				
Deburring				
Engraving 45 / 60 Degree	0.1 - 3.0			
Milling	0.3 - 2.0			
Lollipop	1.0 - 3.0			

RECOMMENDED OPERATING PARAMETERS

MILLING
- Slotting - up to D=2.0mm & ap= 0.05D
- Shouldering - up to D=2.0mm, ae=0.1D & ap=0.1D

THREAD MILLING
- Max. M3 thread

DRILLING
- Max drill dia. 1.00mm (2.00mm for Non ferrous metals)

DEBURRING
- Max tool dia. 3.00mm
- Can use 45 to 60 degree end-mill

ENGRAVING/CHAMFERING
- Max tool D 3.00mm
- Max Ap 0.25mm

BAR	Idle Speed RPM
15	18,000
20	23,000
25	27,000
30	31,000
35	34,000
40	40,000

Each package contains:

TJS MJ00 x1
MJ SHAFT LOCK x1
MJ COLLET WRENCH x1
MJ COOLANT THROUGH PLUG x1

Features

The Micro product **range** supports milling and turning machines with the highest advantages found in: (1) **turning machines high speed** increase and conversion of static holders to live holders (2) **Smaller machines** where optimizing the use of space provides an advantage.
All Micro products have identical integration options and dimensions which provide efficient inventory management. (3) Supports **coolant through tools**.

COLIBRI SPINDLES

MICRO Jet

Clamping and Coolant

When machining at high speeds, use a nutless collet to improve dynamic balancing with pinpointed coolant to the cutting edge. Assures a simple tool change with no setup time and a low runout.

Coolant outlets from the front housing nozzles direct high-pressure coolant to the cutting edge.

Micro 00 Collets

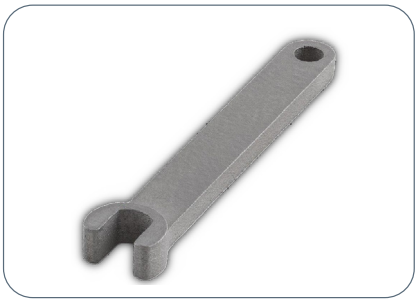
MJ COLLET 1.6	AC-160	D = 1.600 mm
MJ COLLET 2.0	AC-200	D = 2.000 mm
MJ COLLET 3.0	AC-300	D = 3.000 mm
MJ COLLET 3.175	AC-317	D = 3.175 mm

Note: The collet is purchased separately



Micro 00 Tools

TJS MJ90 WRENCH	2430-128
TJS MJ00 WRENCH	TJM-TNF
TJS MJ00 SHAFT LOCK	2430-279





Micro 00 Coolant Through Plug

MJ COOLANT THROUGH PLUG TJM-PL



COOLANT THROUGH TOOL INSTRUCTIONS

Supply coolant flow into the cutting tool shank:

Step 1: Open and remove the standard plug using an Allen key 2.0 mm.

Step 2: Insert the MJ COOLANT THROUGH PLUG in place of standard plug.

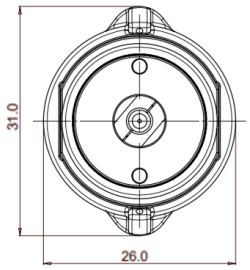
Step 3: Insert the coolant-through cutting tool into Micro 00 Collet.

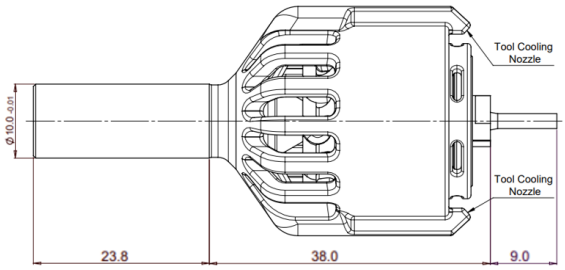
COLIBRI SPINDLES

MICRO Jet

MICRO JET LINE MODELS				
ANGLE HEAD	00	45	60	90







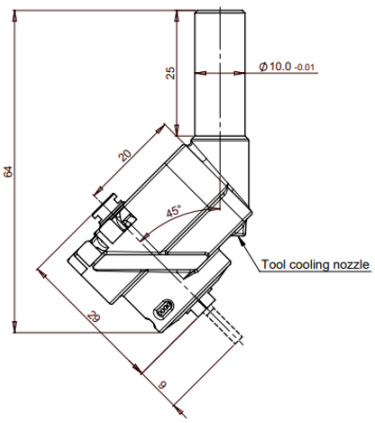
Designation	P/N	D mm	L mm	Tool d max mm	Kg
MICRO JET 00	87-056-000C	10.00	62.00	3.175	0.65

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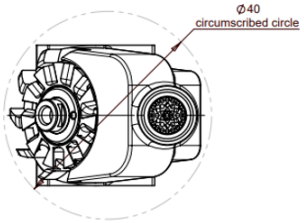
DXF - 2D	STEP - 3D Detail	Drawing - PDF

MICRO JET LINE MODELS				
ANGLE HEAD	00	45	60	90









Designation	P/N	D mm	L mm	Tool d max mm	Kg
MICRO JET 45	87-055-045C	10.00	64.00	3.175	0.80

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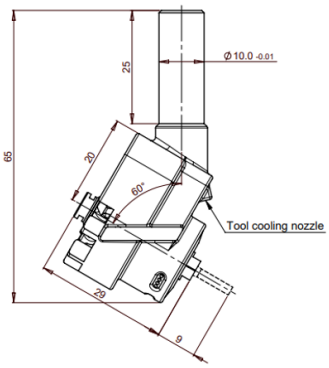
DXF - 2D	STEP - 3D Detail	Drawing - PDF

COLIBRI SPINDLES

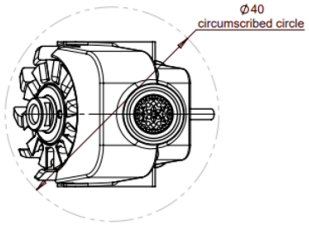
MICRO Jet

MICRO JET LINE MODELS				
ANGLE HEAD	00	45	60	90







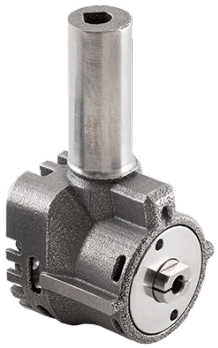


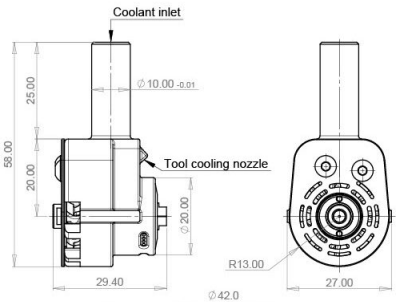
Designation	P/N	D mm	L mm	Tool d max mm	Kg
MICRO JET 60	87-055-060C	10.00	65.00	3.175	0.76

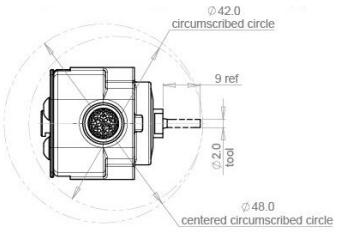
FILES AVAILABLE FOR DOWNLOAD IN ONLINE CATALOG: https://colibrispindles.com/catalog/

DXF - 2D	STEP - 3D Detail	Drawing - PDF

MICRO JET LINE MODELS				
ANGLE HEAD	00	45	60	90







Designation	P/N	D mm	L mm	Tool d max mm	Kg
MICRO JET 90	87-055-090C	10.00	58.00	3.175	0.78

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DXF - 2D	STEP - 3D Detail	Drawing - PDF

COLIBRI SPINDLES

COLIBRI SPINDLES LIMITED - HQ ISRAEL



PARTNERS

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SPINDLES

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